

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,753

DATE: 07/25/2001

TIME: 17:07:53

Input Set : A:\2973ver1.app

Output Set: N:\CRF3\07252001\I904753.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Lynos, Robert T  
 5 <120> TITLE OF INVENTION: Use of ANtimicrobial Peptides as Preservatives in  
 6 Ophthalmic Preparations, Including Solutions,  
 7 Emulsions, and Suspensions  
 9 <130> FILE REFERENCE: 2973 ver 2  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/904,753  
 C--> 12 <141> CURRENT FILING DATE: 2001-07-13  
 14 <150> PRIOR APPLICATION NUMBER: WO 96/25183  
 15 <151> PRIOR FILING DATE: 1996-08-22  
 17 <160> NUMBER OF SEQ ID NOS: 14  
 19 <170> SOFTWARE: PatentIn Ver. 2.1  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 23  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Xenopus laevis  
 26 <300> PUBLICATION INFORMATION:  
 27 <301> AUTHORS: Lee et al.,  
 28 <302> TITLE: High-Level Expression of Antimicrobial Peptide Mediated  
 29 by a Fusion Partner Reinforcing Formation of Inclusion  
 30 Bodies  
 31 <303> JOURNAL: Biochem. Biophys. Res. Commun.  
 32 <304> VOLUME: 277  
 33 <306> PAGES: 575-580  
 W--> 34 <307> DATE: Sept 21, 2000 2000-09-21  
 36 <400> SEQUENCE: 1  
 37 Gly Ile Gly Lys Phe Leu His Ser Ala Gly Lys Phe Gly Lys Ala Phe  
 38 1 5 10 15  
 40 Val Gly Glu Ile Met Lys Ser  
 41 20  
 44 <210> SEQ ID NO: 2  
 45 <211> LENGTH: 23  
 46 <212> TYPE: PRT  
 47 <213> ORGANISM: Xenopus laevis  
 49 <400> SEQUENCE: 2  
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 51 1 5 10 15  
 53 Val Gly Glu Ile Met Asn Ser  
 54 20  
 57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 22  
 59 <212> TYPE: PRT  
 60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:  
 63 <221> NAME/KEY: PEPTIDE  
 64 <222> LOCATION: (22)  
 65 <223> OTHER INFORMATION: Xaa at position 22 is Lys-amide  
 67 <220> FEATURE:

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68 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: maginin analog

70 &lt;400&gt; SEQUENCE: 3

71 Gly Ile Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe

72 1 5 10 15

74 Val Lys Ile Leu Lys Xaa

75 20

78 &lt;210&gt; SEQ ID NO: 4

79 &lt;211&gt; LENGTH: 22

80 &lt;212&gt; TYPE: PRT

81 &lt;213&gt; ORGANISM: Artificial Sequence

83 &lt;220&gt; FEATURE:

84 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: maginin analog

86 &lt;400&gt; SEQUENCE: 4

87 Gly Ile Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe

88 1 5 10 15

90 Val Lys Ile Leu Lys Lys

91 20

94 &lt;210&gt; SEQ ID NO: 5

95 &lt;211&gt; LENGTH: 37

96 &lt;212&gt; TYPE: PRT

97 &lt;213&gt; ORGANISM: silk moth

99 &lt;400&gt; SEQUENCE: 5

100 Lys Trp Lys Leu Phe Lys Lys Ile Glu Lys Val Gly Gln Asn Ile Arg

101 1 5 10 15

103 Asp Gly Ile Ile Lys Ala Gly Pro Ala Val Ala Val Val Gly Gln Ala

104 20 25 30

106 Thr Gln Ile Ala Lys

107 35

110 &lt;210&gt; SEQ ID NO: 6

111 &lt;211&gt; LENGTH: 36

112 &lt;212&gt; TYPE: PRT

113 &lt;213&gt; ORGANISM: silk moth

115 &lt;400&gt; SEQUENCE: 6

116 Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg

117 1 5 10 15

119 Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala

120 20 25 30

122 Lys Ala Leu Gly

123 35

126 &lt;210&gt; SEQ ID NO: 7

127 &lt;211&gt; LENGTH: 38

128 &lt;212&gt; TYPE: PRT

129 &lt;213&gt; ORGANISM: Artificial Sequence

131 &lt;220&gt; FEATURE:

132 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: analog of

133 cecropin B

135 &lt;400&gt; SEQUENCE: 7

136 Met Pro Arg Trp Arg Leu Phe Arg Arg Ile Asp Arg Val Gly Lys Gln

137 1 5 10 15

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139 Ile Lys Gln Gly Ile Leu Arg Ala Gly Pro Ala Ile Ala Leu Val Gly
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143           35
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148 <212> TYPE: PRT
149 <213> ORGANISM: human
151 <400> SEQUENCE: 8
152 Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
153   1           5           10           15
155 Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
156           20           25           30
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 29
161 <212> TYPE: PRT
162 <213> ORGANISM: human
164 <400> SEQUENCE: 9
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166   1           5           10           15
168 Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
169           20           25
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 30
174 <212> TYPE: PRT
175 <213> ORGANISM: human
177 <400> SEQUENCE: 10
178 Asp Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
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181 Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
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185 <210> SEQ ID NO: 11
186 <211> LENGTH: 33
187 <212> TYPE: PRT
188 <213> ORGANISM: rabbit
190 <400> SEQUENCE: 11
191 Val Val Cys Ala Cys Arg Arg Ala Leu Cys Leu Pro Arg Glu Arg Arg
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195           20           25           30
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201 <210> SEQ ID NO: 12
202 <211> LENGTH: 11
203 <212> TYPE: PRT
204 <213> ORGANISM: cow
206 <400> SEQUENCE: 12
207 Arg Leu Cys Arg Val Val Ile Arg Val Cys Arg
208   1           5           10
211 <210> SEQ ID NO: 13

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Input Set : A:\2973ver1.app

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212 <211> LENGTH: 26  
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 216 <220> FEATURE:  
 217 <221> NAME/KEY: PEPTIDE  
 218 <222> LOCATION: (26)  
 219 <223> OTHER INFORMATION: Xaa at position 26 is Ser-amide  
 221 <220> FEATURE:  
 222 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid  
 223 antimicrobial peptide  
 225 <400> SEQUENCE: 13  
 226 Lys Trp Lys Leu Phe Lys Lys Ile Gly Ile Gly Ala Val Leu Lys Val  
 227 1 5 10 15  
 229 Leu Thr Thr Gly Leu Pro Ala Leu Ile Xaa  
 230 20 25  
 233 <210> SEQ ID NO: 14  
 234 <211> LENGTH: 16  
 235 <212> TYPE: PRT  
 236 <213> ORGANISM: Artificial Sequence  
 238 <220> FEATURE:  
 239 <221> NAME/KEY: PEPTIDE  
 240 <222> LOCATION: (16)  
 241 <223> OTHER INFORMATION: Xaa at position 16 is Leu-amide  
 243 <220> FEATURE:  
 244 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid  
 245 antimicrobial peptide  
 247 <400> SEQUENCE: 14  
 248 Lys Trp Lys Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Xaa  
 249 1 5 10 15

## VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:34 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:1  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14